



| (REV. 03-78)   |        | 03-78)                    | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE |                     | SERIAL NO.<br>10/098,650              |                   | GROUP ART UNIT |              | TO PAPER NO. 9 |        |                    |
|--|--------|---------------------------|---|---------------------|---------------------------------------|-------------------|----------------|--------------|----------------|--------|--------------------|
|  |        |                           |   |                     |                                       | IT(S)             |                |              |                |        |                    |
|  |        |                           |   |                     | Bernhard et al                        |                   |                |              |                |        |                    |
| L  |        |                           |   |                     |                                       |                   |                |              |                |        |                    |
| U.S. PATENT DOCUMENTS  |        |                           |   |                     |                                       |                   |                |              |                |        |                    |
| *  |        | DOCUMENT NO.              | DATE  |                     | NAME                                  |                   |                | CLASS        | UB-CLASS       |        | G DATE<br>ROPRIATE |
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| <u> </u>   | J      |                           |   |                     |                                       |                   |                |              |                |        |                    |
| FOREIGN PATENT DOCUMENTS   |        |                           |   |                     |                                       |                   |                |              |                |        |                    |
| *  | L      | DOCUMENT NO. DATE COUNTRY |   |                     |                                       |                   |                |              | CLASS SUBCLASS |        |                    |
| L  |        |                           |   |                     |                                       |                   |                |              |                |        |                    |
| ⊢  | M<br>N | 2342445<br>WO 91/17421    | 4/12/00<br>11/14/91                                     | UK<br>DE            |                                       | Buchanan<br>Noack | et al          |              | G01N<br>G01N   | 11/16  |                    |
| ⊢  | 0      | VVO 51/1/421              | 11/14/91  | DE .                |                                       | Noack             |                |              | GUIN           | 11/16  |                    |
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| Г  | Q      |                           | 1   |                     |                                       |                   |                |              |                | †      |                    |
|  | R      |                           |   |                     |                                       |                   |                |              |                |        |                    |
|  |        |                           | OTHER RE  | FERENCES (Including | Author, Tit                           | le, Date, Pe      | ertinent       | Pages, Etc.) |                |        |                    |
|  | R      |                           |   |                     |                                       |                   |                |              |                |        |                    |
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| Dr. Jay L. Politzer 4/1/03   |        |                           |   |                     |                                       |                   |                |              |                |        |                    |
|  |        | * A cc                    | ny of this  | reference is not    | heina fi                              | rnished           | with           | this office  | action         |        |                    |
| * A copy of this reference is not being furnished with this office action.  (See Manual of Patent Examining Procedure, section 707.05(a).) |        |                           |   |                     |                                       |                   |                |              |                |        |                    |

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